

# SDMS US EPA Region V

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HVAC SYSTEM DRAWINGS



Document is available at the EPA Region 5 Records Center.

Specify Type of Document(s) / Comments:

**ENVIRONMENTAL INDICATOR  
REPORT**

**CA 725 CURRENT HUMAN  
EXPOSURES UNDER  
CONTROL**

**W.G. KRUMMRICH PLANT  
SAUGET, IL**

**VOLUME II**

*Prepared for*  
W.G. Krummrich Plant  
500 Monsanto Avenue  
Sauget, Illinois 62206



August 2003

**URS**

URS Corporation  
1001 Highland Plaza Drive West, Suite 300  
Saint Louis, MO 63110  
(314) 429-0100  
21561197.00001

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## Volume II

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**Building Foundation and HVAC Systems**  
**Solutia (W.G. Krummrich Facility)**

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1	TS-D-23845	0	ONA/PNA Control Building; Building CCH; Site, Grading & Utility Plan
2	TS-D-23851	1	ONA/PNA Control Building; Building CCH; Pile And Foundation Plan
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18	TS-D-18013	0	ACL Foremen's Office ~ Bldg. BBH; H.V.A.C. Sections & Details
19	TS-D-18012	0	ACL Foremen's Office ~ Bldg. BBH; H.V.A.C. Layout & Details
20	TS-D-18011	0	ACL Foremen's Office ~ Bldg. BBH; Foundation Plan, Details & Notes

**Drawing Schedule**  
**Building Foundation and HVAC Systems**  
**Solutia (W.G. Krummrich Facility)**

<b>Blueprint #</b>	<b>Drawing #</b>	<b>Revision</b>	<b>Drawing Title</b>
21	TS-D-24976	0	Foundation Plan & Details; Building BBR Expansion; ACL (OxyChem)
22	TS-D-17274	0	Zone C/D Maintenance Shop; Foundation Plan & Details
23	TS-D-17288	2	Zone C/D Maintenance Shop; Schedules
24	TS-D-25010	0	P <sub>2</sub> S <sub>5</sub> Operations Bldg. - BBN; Schedules
25	TS-D-25006	0	P <sub>2</sub> S <sub>5</sub> Operations Bldg. - BBN; Mechanical Floor Plan
26	TS-D-24997-S1	0	P <sub>2</sub> S <sub>5</sub> Operations Bldg. - BBN; Foundation Plan
27	TS-D-24995-A4	0	P <sub>2</sub> S <sub>5</sub> Operations Bldg. - BBN; Sections & Details
28	M-I	0	Solutia W.G. Krummrich Plant; New Control Bldg. - Dept. 240

## **Attachment B**

### **Foundation and HVAC System Drawings**

FLUOR DANIEL



ENGINEERING

GREENVILLE

SOUTH CAROLINA

MISSION NUMBER

221-B280

DRAWING NUMBER

NA-C1-01

REV.

0

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N. G. KRUMMRICH PLANT

SAUGET, IL

ONA/PNA CONTROL BUILDING  
BUILDING CCH  
SITE, GRADING & UTILITY PLAN

	BY	DATE		BY	DATE	DEPT.
DRAWN	SMK	2-7-90	APPROVED	R. A. FLESCHER	02-08-90	2994
CHECKED	TEW	2-9-90	APPROVED			BLOCK
APPROVED	R. W. RIGGS	2-9-90	TYPE C	EST. NO.		001
SCALE		DWG. NO.				REV.
1" = 10'		TS-D-23845				0

ZHO:\050,062\CB280NA01.STP

IGS-JE

REV. BY DATE	DESCRIPTION	CHLD APP'D
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10

**FLUOR DANIEL**



**E N G I N E E R I N G**

GREENVILLE

SOUTH CAROLINA

COMMISSION NUMBER B280	DRAWING NUMBER NA-SI-02	REV. 1
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N. G. KRUMMRICH PLANT

SAUGET, ILL.

CONA/PNA CONTROL BUILDING  
BUILDING CCH  
PILE AND FOUNDATION PLAN

RAWN	PMA/BFM	9/28/89	DEPT.	BLOCK
CHECKED	APS	11/1/89	2994	001
APPROVED	AP Shah	11/1/89	T.S.D. JOB NO.	
APPROVED	R. HAZEN	11/2/89	DWG. TYPE	EST. NO.
APPROVED	R. A. Richardson	11/03/89	S	5850

SCALE AS NOTED	DWG. NO. TS-D-23051	REV. 1
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# ENGINEERING

GREENVILLE

SOUTH CAROLINA

OMMISSION NUMBER	DRAWING NUMBER	REV
B280	NA-H3-02	1

SCHEDULES

REFERENCE DRAWINGS

TS-D-23850

DWG NO.



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V G KRUMMRICH PLANT

SAUGET, LA

ONA/PNA CONTROL BUILDING  
BUILDING CCH  
2 ND FLOOR DUCTWORK

RAWN	M. P.	DEST	BLO.
CHECKED	PQC	2994	
APPROVED	11/30/89	TS D JOP NO	001
APPROVED	11/30/89	DWG TYPE	EST
APPROVED	12/13/89	M	NO 5850

SCALE	DWG	REV
AS NOTED	NO TS-D-23849	1

**FLUOR DANIEL****ENGINEERING**

GREENVILLE

SOUTH CAROLINA

COMMISSION NUMBER

B280

DRAWING NUMBER

NA-H6-01

REV

1

1ST &amp; 2ND FLOOR DUCTWORK

NA-H3-01&amp;02

REFERENCE DRAWINGS

DWG NO



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W G KRUMMRICH PLANT

SAUGET ILL

ONA/PNA CONTROL BUILDING  
BUILDING CCH  
SCHEDULES

DRAWN	M. P.		DEPT	BLOCK
CHECKED	<i>MP</i>	11/30/89	2994	
APPROVED	<i>ADT</i>	11/30/89	T S B JOB NO	001
APPROVED	R.A. Dleschner	12/13/89	DWG TYPE	EST
APPROVED	FOR R.E. BUNGE BY R.A. Dleschner	12/13/89	M	NO 5850
SCALE	DWG	REV		
NONE	NO	1		

T S B -23850


REFERENCE DRAWINGS

DWG NO



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W G KRUMMICH PLANT

SAUGET, ILL

# HVAC SCHEDULES

DRAWN	CJP		DEPT	2918	BLOCK
CHECKED	MS		T S & JOB NO		008
APPROVED	<i>R.A. Decker</i>	<i>4/13/87</i>	DWG TYPE	M	EST NO 4207
APPROVED	<i>R.A. Rensch</i>	<i>4/13/87</i>			
APPROVED					

SCALE  
NONE

ISS  
NO

TSD-218 RI

REV  
0

ERS SHALL H

10 in

REFERENCE DRAWINGS	DWG. NO.



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W. G. KRUMMRICH PLANT

SAUGET, ILL.

# FIRST FLOOR HVAC PLAN, LEGEND, DETAILS

DRAWN	CJP		DEPT	2918	BLOCK
CHECKED	MS		TSD JOB NO		008
APPROVED	<i>P.A. Felschner</i>	4/13/87	DWG TYPE	M	EST NO 4207
APPROVED	<i>R.A. Resch</i>	4/13/87			
APPROVED					

SCALE 1/4" = 1'-0"

REFERENCE DRAWINGS	DWG. NO.



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W. G. KRUMMRICH PLANT

SAUGET, ILL.

SCHEDULES AND  
DETAILS

**Booker**  
Engineers Architects Planners

DRAWN	A.W.S.	4-26-91	DEPT.	2918	BLOCK
CHECKED	E.G.Z.	6/24/91	T.S.D. JOB NO.		008
APPROVED	R. SCHREINER	7/91	DWG. TYPE	M-2	EST. NO. 1009
APPROVED					
APPROVED					
SCALE	DWG. NO.		REV.		
VARIES	TS-D23409				

REFERENCE DRAWINGS	DWG. NO.



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W. G. KRUMMRICH PLANT

SAUGET, ILL.

H.V.A.C. LAYOUT  
AND DETAILS

**Booker**  
Engineers Architects Planners

DRAWN	A.W.S.	4/26/91	DEPT.	2918	BLOCK
CHECKED	E.G.Z	6/24/91	T.S.D. JOB NO.		008
APPROVED	R. SCHREINKER	7/91	DWG. TYPE	M-1	EST. NO. 1009
APPROVED					
APPROVED					
SCALE		DWG. NO.		REV.	
VARIES		TS-D23408			

REFERENCE DRAWINGS	DWG. NO.



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W. G. KRUMMRICH PLANT

SAUGET, ILL.

## SECOND FLOOR HVAC PLAN & DETAILS

DRAWN	CJP		DEPT	2918	BLOCK
CHECKED	MS		T.S.D. JOB NO		008
APPROVED	<i>R.A. Deschner</i>	4/13/87	DWG TYPE	M	EST NO 4207
APPROVED	<i>R.A. Deschner</i>	4/13/87			
APPROVED					
SCALE	DWG. NO	TSD-218 79			REV
AS NOTED					1

REFERENCE DRAWINGS	DWG. NO.



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 OF THE WORK OR JOB WHILE IN THE POSSESSION OF THE  
 RECIPIENT IT MUST BE PROPERLY SAFEGUARDED AGAINST REVE-  
 LATION OR DISCLOSURE TO ANY ONE EXCEPT THOSE EMPLOYEES  
 WHO REQUIRE IT FOR THE WORK OR JOB THE RECIPIENT MUST  
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 CONFIDENTIAL THE INFORMATION CONTAINED HEREON

W & KRUMHOLTZ PLANT                      SAUGET, ILL.

# HVAC SCHEMATICS & DETAILS

DESIGN	MW		DEPT	2918	BLOCK
CHECKED	MS		T&D JOB NO		008
APPROVED	R.A. Flueck	4/13/87	DWG TYPE	M	EST
APPROVED	L. A. Leach	4/13/87			NO 4207
APPROVED					
SCALE					REV
NONE					

er  
 3-FAN





REFERENCE DRAWINGS	DWG. NO.



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W. G. KRUMMRICH PLANT

SAUGET, ILL.

# NEW CAFETERIA/ MEETING ROOM

7

DRAWN			DEPT.	BLOCK
CHECKED			2967	002
APPROVED			T.S.D. JOB NO.	
APPROVED			DWG. TYPE	EST. NO.
APPROVED			M	
SCALE 1/4" = 1'-0"		DWG. NO. TS-D 22536		1

DRAWN	KLEBERG	4/21/69	DEPT.	837	WORK ORDER NO.
CHECKED	R. HYDZIK	4/23/69	T. S. D. JOB NO.	E 8104	
PROJ. ENGR.	R. HYDZIK	4/23/69			1-5857-800
DSGN. APPD.	R. FLYNN	4/25/69	IDENTITY	095/160	EST. NO. 5357
APPD.					
SCALE		DWG. NO.	T S-D-9563		REV. 3

REFERENCE DRAWINGS	DWG. NO.



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W. G. KRUMMICH PLANT

SAUGET, ILL.

## WEST PLANT SHOP MECHANICAL PLAN

DRAWN	TL BOLAND	DEPT.	811	BLOCK
CHECKED		T.S.D. JOB NO.	16	
APPROVED	BRN 5/87	DWG. TYPE	M	EST. NO. 4155
APPROVED	L. [Signature] 5/87			
APPROVED				
SCALE	1/8" = 1'-0"	DWG. NO.	TS-D-21071	REV.
				1

REFERENCE DRAWINGS	DWG. NO.



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W. G. KRUMMHOFF PLANT

SAUGET, ILL.

# WEST PLANT SHOP FOUNDATION PLAN

DRAWN	RB		DEPT.	811	BLOCK
CHECKED			T.S.D. JOB NO.		10
APPROVED			DWG. TYPE	A	EST. NO. 4155
APPROVED					

SCALE	AS NOTED	DWG. NO.	TS-P-21066	REV.	3
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2	NO. DATE	REVISION-REMARKS	BY	CKD	APPD.			
			REFERENCE DRAWINGS		DWG. NO.			
			<p align="center"><b>NOTICE</b></p> <p>THIS DRAWING IS THE PROPERTY OF MONSANTO COMPANY AND MUST BE RETURNED, WITHOUT REPRODUCTION OR DUPLICATION, AT ANY TIME UPON REQUEST, BUT IN ANY EVENT AT COMPLETION OF THE WORK OR JOB WHILE IN THE POSSESSION OF THE RECIPIENT. IT MUST BE PROPERLY SAFEGUARDED AGAINST REVELATION OR DISCLOSURE TO ANY ONE EXCEPT THOSE EMPLOYEES WHO REQUIRE IT FOR THE WORK OR JOB. THE RECIPIENT MUST KEEP CONFIDENTIAL AND REQUIRE HIS (ITS) EMPLOYEES TO KEEP CONFIDENTIAL THE INFORMATION CONTAINED HEREON.</p>					
			<p>W. G. KRUMMRICH PLANT <span style="float: right;">SAUGET, ILL.</span></p>					
<p align="center"><b>WEST PLANT SHOP</b></p> <p align="center"><b>FOUNDATION DETAILS</b></p>								
2	NO. DATE	REVISION-REMARKS	DRAWN	RS	DEPT.	B11	BLOCK	1C
			CHECKED		T.S.D. JOB NO.			
			APPROVED		DWG. TYPE	A	EST. NO. 4156	
			APPROVED					
APPD.	AS NOTED	NO.	TG-D-21067			REV.	3	

REFERENCE DRAWINGS	DWG. NO.



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W. G. KRUMMICH PLANT

SAUGET, ILL.

## WEST PLANT SHOP MECHANICAL SCHEDULES

DRAWN	M.B.N.		DEPT.	811	BLOCK
CHECKED			T.S.D. JOB NO.	16	
APPROVED	B.R.N.	5/87	DWG. TYPE	M	EST. NO. 4155
APPROVED	L. B. BROWN	5/87			
APPROVED					
SCALE		DWG. NO.		REV.	
AS NOTED		TS-D-21072		1	

WPD.





REFERENCE DRAWINGS	DWG. NO.



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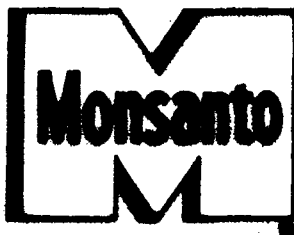
W. G. KRAUMERICH PLANT

SAUGET, ILL.

ACL FOREMEN'S OFFICE ~ BLDG. 80H  
 H.V.A.C. LAYOUT & DETAILS

DRAWN	W. G. KRAUMERICH	4/12/83	DEPT.	2938	BLOCK
CHECKED	T. WALKER	5/24/83	T.S.D. JOB NO.		023
APPROVED	R. LAUSE	5/11/83	DWG. TYPE	M	EST. NO. 6803
APPROVED	F. S. S. S. S.	5/11/83			
APPROVED					
SCALE	AS SHOWN		DWG. NO.	TS-D-18012	
					REV.

REFERENCE DRAWINGS	DWG. NO.



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W. G. KRUMMHOFF PLANT

SAUGET, ILL.

ACL FOREMEN'S OFFICE - BLDG. B5H  
FOUNDATION PLAN, DETAILS & NOTES

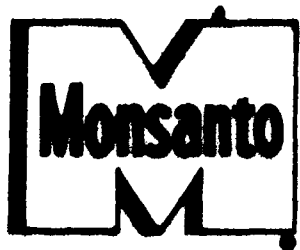
DRAWN	WENSON	4/6/66	DEPT.	2030	BLOCK
CHECKED	T. WILSON	5/2/66	T.S.D. JOB NO.	023	
APPROVED	R. LAMER	5/26/66	DWG. TYPE	3	EST. NO. 6200
APPROVED	A. S. S. S. S.	5/25/66			
APPROVED					

SCALE  
1/4" = 1'-0"

DWG. NO. TS-D 18011

REV.

KEEP DRAWING PLAN & DETAILS BUILDING BBR EXPANSION	TS-D-24977
KEEP DRAWING PLAN & DETAILS BUILDING BBR EXPANSION	TS-D-24973
REFERENCE DRAWINGS	DWG. NO.



# NOTICE

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W. G. KRUMMHOCH PLANT

SAUGET, ILL.

## FOUNDATION PLAN & DETAILS BUILDING BBR EXPANSION ACL (OXYCHEM)

DRAWN	MUEHLHAUSER	12/94	DEPT.	252	BLOCK
CHECKED	RAK	1/95	T.S.D. JOB NO.		026
APPROVED			DWG. TYPE	\$	EST. NO.
APPROVED	RA Kunk	1/95			
APPROVED					
SCALE	DWG. NO.			REV.	
AS NOTED	TS-D-24976			0	

BE APPROX. 32' BELOW SITE GRADE.  
CAPACITY APPROX. 50 TONS / PILE.  
SPECIFICATIONS FOR ADDITIONAL  
MENTION.

REFERENCE DRAWINGS	DWG. NO.



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W. G. KRAMERICH PLANT

SAUGET, ILL.

**ZONE C/D MAINTENANCE SHOP  
FOUNDATION PLAN & DETAILS**

DRAWN	RLW	DEPT.	211	BLOCK	
OWNED		T.S.D. JOB NO.	1142 & 1143	002	
APPROVED		DWG. TYPE	5	EST. NO.	
APPROVED	<i>[Signature]</i> 1/10/62				
APPROVED					
SCALE	Dwg. NO. TS-D-17274			REV.	0

REFERENCE DRAWINGS	DWG. NO.



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W. G. KRUMMIRICH PLANT

SAUGET, ILL.

ZONE C/D MAINTENANCE SHOP

SCHEDULES

DRAWN	J. A. T.		DEPT.	B11	BLOCK
CHECKED	J. A. T.		T.S.D. JOB NO.	1142 & 1143	002
APPROVED			DWG. TYPE	E	EST. NO.
APPROVED	<i>[Signature]</i>	1/10/83			
APPROVED					

SCALE NONE      DWG. NO. TS - D - 17288      REV. 2

LOW AMOUNT TO + OPT.  
REFRIGERATION SPECIALTIES.  
HERBITE COATING ON COILS.

REFERENCE DRAWINGS

DWG. NO.



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W. S. KILMURRICH PLANT

SAUGET,

P<sub>2</sub>S OPERATIONS BLDG-BB1  
SCHEDULES

DRAWN	MW/DWT	5-10-95	DEPT.	245	BLOCK
CHECKED	MS		T.S.D. JOB NO.		15
APPROVED			DWG. TYPE		EST. NO. 425
APPROVED					

NO.	APPR.	DATE	DWG. NO.
		NONE	TS-D-25010



w/ 6x6/W2.9xW2.9 W.W.F.

PLUMBING ISOMETRIC

TS-D

PLUMBING PLAN

TS-D

REFERENCE DRAWINGS

DW



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W. G. KRUMMRICH PLANT

SAUGER

P<sub>2</sub> S<sub>5</sub> OPERATIONS BUILDING  
FOUNDATION PLAN

DRAWN	5-8-95	RLS	DEPT	245	WORK ORDER NO.
CHECKED	5-9-95	R.L.W.	T.S.D. JOB NO.		
PROJ ENGR	-	-	IDENTITY		EST NO.
DSGN APPD	-	-			
APPD	-	-			

SCALE

DWG NO

1/4" = 1'-0"

TS-D-24997-S

APPD APPD



1" = 1'-0"

AI

PENTHOUSE ROOF & MISC. FRAMING DETAILS	TS-D-1
SECTIONS AND DETAILS	TS-D-2
FLOOR PLAN	TS-D-3
REFERENCE DRAWINGS	DWC



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W. G. KRUMMRICH PLANT

SAUGE

## P<sub>2</sub> S<sub>5</sub> OPERATIONS BUILDING SECTIONS AND DETAIL

DRAWN	5-8-95	WHO	DEPT	WORK ORDER NO.
CHECKED	5-9-95	RLW	245	
PROJ ENGR			T.S.D. JOB NO.	1
DSGN APPD			IDENTITY	EST. NO. 4
APPD				

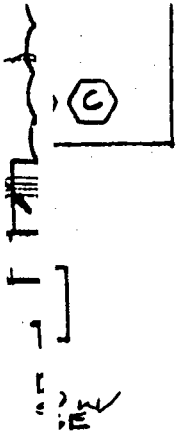
SCALE

DWG NO

1" = 1'-0"

TS-D-24995-A4

D APPD



ERRIDE SWITCH  
PE GPST.

DIAG

SCHEMATIC

1

1

1

1

1

1

1

1

1

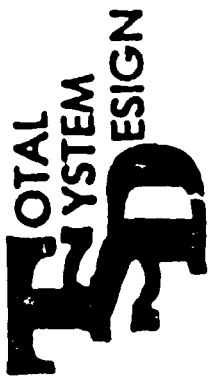
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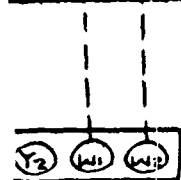
SCOUTIA W. G. KRUMMRICH PLANT  
NEW CONTROL BLDG. - DEPT. 240

SEAL

19  
21  
R  
11  
15  
S

TU-1

Y<sub>2</sub> W<sub>1</sub> W<sub>2</sub> C



MPER OVERRIDE SWITCH  
GGLE TYPE 6P6T.

## RING SCHEMATIC

**TOTAL  
SYSTEM  
DESIGN**

SOL JTIA W. G. KRUMMRICH PLANT  
NEW CONTROL BLDG.- DEPT. 240